

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/074,873	02/11/2002	George Tzong-Chyi Tzeng	eVionyx-0020USAAON00	8470
75	90 03/29/2004		EXAMINER	
RALPH J. CRISPINO			YUAN, DAH WEI D	
eVionyx, Inc. 85 Executive B	lvd.	•	ART UNIT	PAPER NUMBER
Elmsford, NY 10523			1745	
			DATE MAILED: 03/29/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	_	M
	Application No.	Applicant(s)
	10/074,873	TZENG, GEORGE TZONG-CHYI
Office Action Summary	Examiner	Art Unit
	Dah-Wei D. Yuan	1745
The MAILING DATE of this communication app Period for Reply	pears n the c ver sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be y within the statutory minimum of thirty (30) d will apply and will expire SIX (6) MONTHS fro c, cause the application to become ABANDON	timely filed ays will be considered timely. m the mailing date of this communication. NED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on This action is FINAL . 2b)⊠ This Since this application is in condition for alloware closed in accordance with the practice under E	e action is non-final. nce except for formal matters, p	
Disposition of Claims		
4) ☐ Claim(s) 1-5 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-5 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine	r election requirement.	
	epted or b) objected to by the	
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	tion is required if the drawing(s) is o	objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document * See the attached detailed Office action for a list 	s have been received. s have been received in Applica rity documents have been recei u (PCT Rule 17.2(a)).	ation No ved in this National Stage
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summa Paper No(s)/Mail 5) Notice of Informal 6) Other:	

ANODE STRUCTURE FOR METAL AIR ELECTROCHEMICAL CELLS AND METHOD OF MANUFACTURE THEREOF

Examiner: Yuan S.N. 10/074,873 Art Unit: 1745 March 19, 2004

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Berger (US 3,647,542).

With respect to claim 1, Berger teaches a method for producing a zinc-air battery, wherein each cell having alternate rows of zinc electrode (22) and air electrodes (20). As shown in Figure 1, the honeycomb separator retains and permits transfer of electrolyte ions, but prevents transfer of electrode ions, such as zinc ions. An aqueous potassium hydroxide solution can be introduced into the honeycomb to impregnate the walls thereof and the active zinc electrode material by vacuum soaking or by other conventional procedures. See Column 3, Line 70 to Column 4, Line 5, Column 6, Lines 19-30; Examples 1-3.

With respect to claims 2,3, Berger also teaches a method of placing a vacuum-tight tool over the honeycomb to enable evacuation of the honeycomb, and when evacuated, the electrode material can be injected into the honeycomb cells. Alternatively, aqueous electrolyte is introduced after incorporation of the catalyst and active electrode materials into the cells of the

Art Unit: 1745

honeycomb when the cell is subjected to a vacuum treatment. See Column 5, lines 63-70; Column 6, Lines 19-30.

With respect to claim 4, the anode within the cell is subjected to (atmospheric) pressure after releasing the vacuum. See Column 6, Lines 19-30.

With respect to claim 5, the separator and anode are confined to a mold of honeycomb structure as shown in Figure 1. See Column 6, lines 19-40.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dah-Wei D. Yuan whose telephone number is (571) 272-1295. The examiner can normally be reached on Monday-Friday (8:00-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan, can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Define /

Dah-Wei D. Yuan March 22, 2004